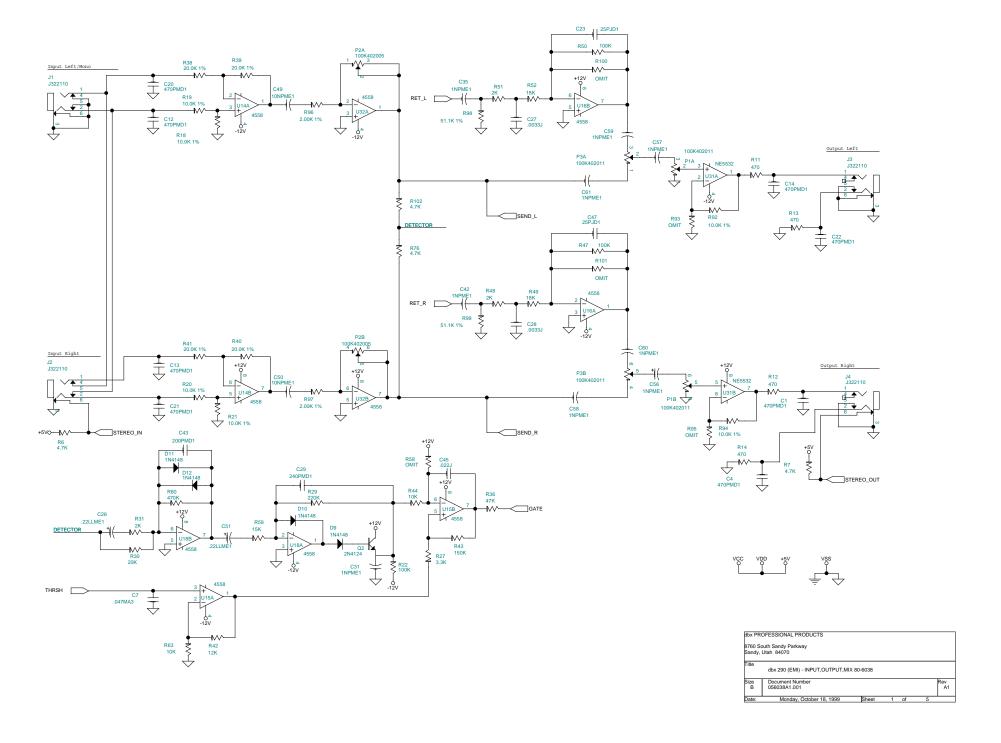
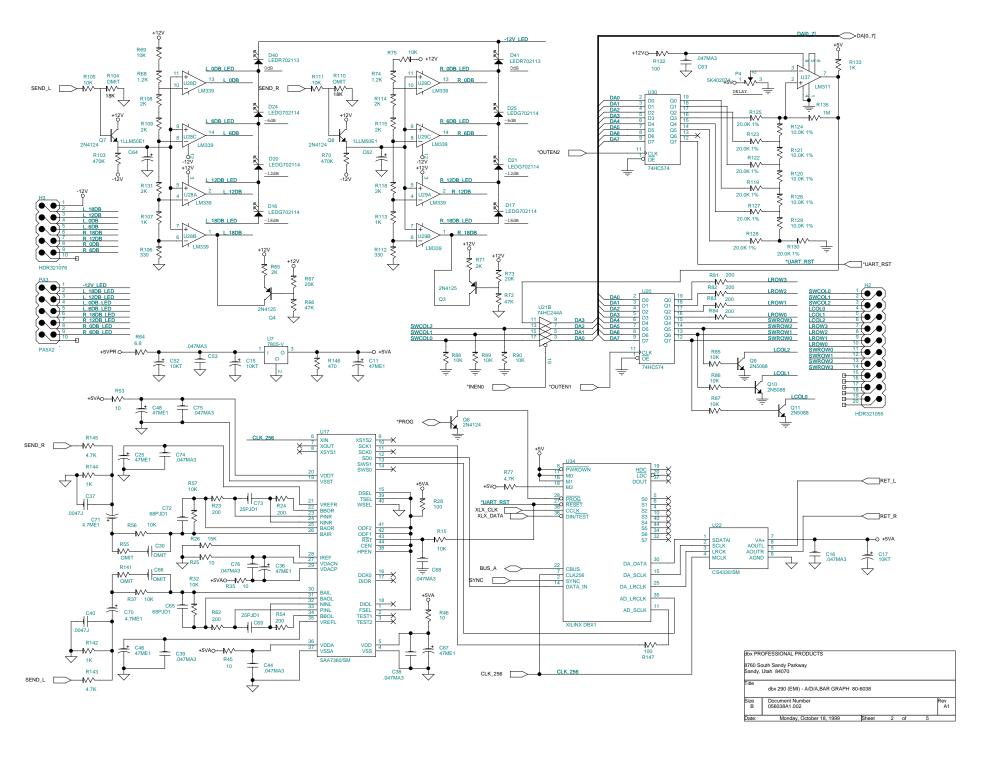
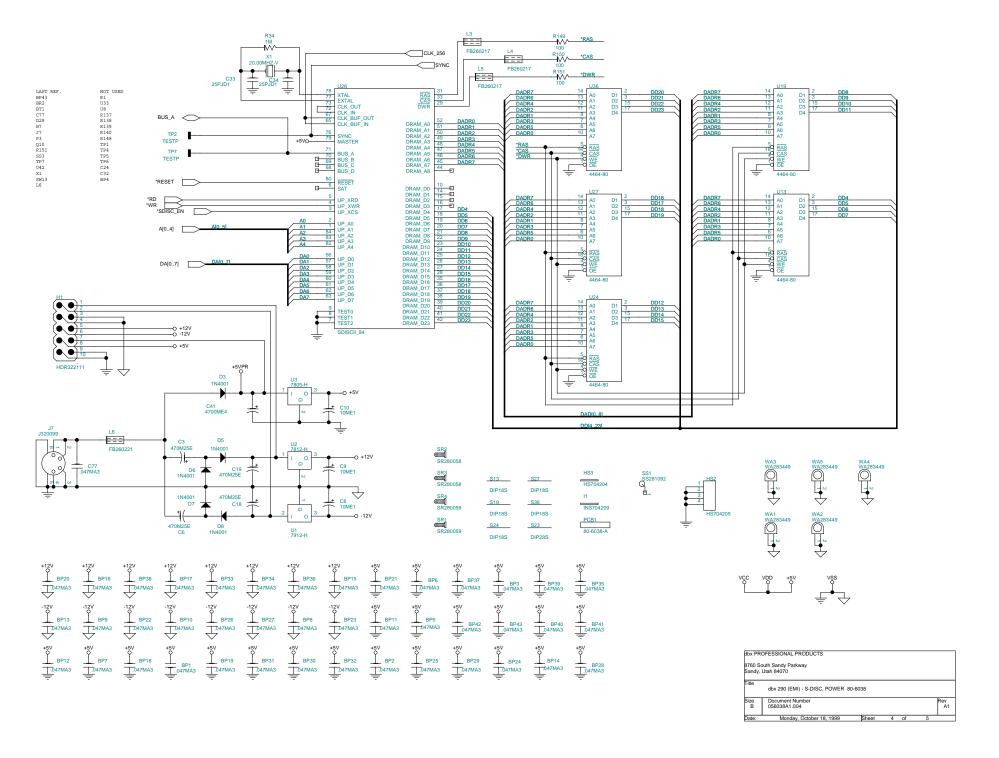
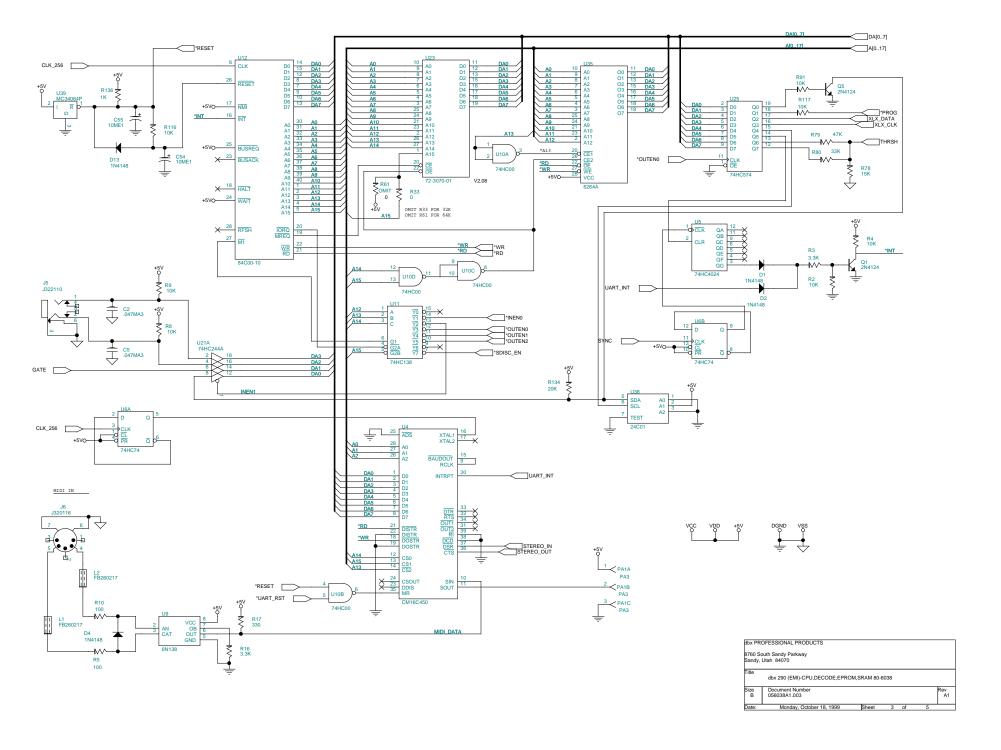
REVISION	DESCRIPTION	ECN#	DATE		REVISION	DESCRIPTION	ECN#	DATE
A0	RELEASE FOR PRODUCTION EMI VERSION OF THE dbx 290		6-28-96					
A1	100ms DRAMS ARE TO SLOW AND CAUSE EXCESS DISTORTION AND A ERROR IN 2.07 SOFTWARE WAS DISCOVERED.	1019	16 AUG 96					
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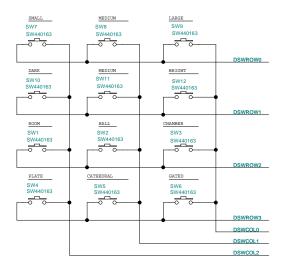
DDX PR	OFESSIONAL PRODUCTS					
	outh Sandy Parkway Utah 84070					
Title	dbx 290 (EMI) 80-6038					
Size B	Document Number 056038A1.000					Rev A1
Date:	Monday, October 18, 1999	Sheet	0	of	5	

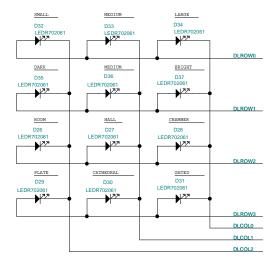


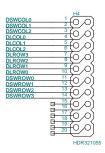












dbx PR	OFESSIONAL PRODUCTS					
	outh Sandy Parkway Utah 84070					
Title	dbx 290(EMI)-SWITCH & LED FRNT	BOARD 80-6	6038			
Size B	Document Number 056038A1.005					Rev A1
Date:	Monday, October 18, 1999	Sheet	5	of	5	

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&10 (s0P (s15H (s8V (s0S &16D &166P &13E &a7L &a120M &161FDOD Software

Page 1 dbx 290 (EMI) 80-6038

Revised: August 16, 1996

056038A1.000 Revision: Al Bill Of Materials August 16, 1996 10:51:08

Quan Reference Part SYMAN Desc

Description

56	BP1,BP2,C2,BP3,BP5,C5, BP6,BP7,C7,BP8,BP9,BP10, BP11,BP12,BP13,BP14,BP15, BP16,C16,BP17,BP18,BP19, BP20,BP21,BP22,BP23,BP24, BP25,BP26,BP27,BP28,BP29, BP30,BP31,BP32,BP33,BP34,		62-0067	0.047 u	F Cap	50V	20%	Axial Monolithic	
8	BP35,BP36,BP37,BP38,C38, BP39,C39,BP40,BP41,BP42, BP43,C44,C53,C63,C68,C74, C75,C76,C77 C1,C4,C12,C13,C14,C20,	470PMD1	62-0003	470 p	F Cap	50V	20%	Ceramic Disc T&R	
O	C21,C22	TIOTINDI	02 0003	170 P	r cap	30 V	200	cciamic bisc ian	
4	C3,C6,C18,C19	470M25E	60-0058	470 u	F Cap	25V -	20/+20%	Elect	
5	C8,C9,C10,C54,C55	10ME1	60-0049-01	10 u	F Cap	16V -	20/+20%	Elect.,-D T&R	
6	C11,C25,C36,C46,C48,C67	47ME1	60-0054-01	47 u	F Cap	16V -	20/+20%	Elect., T&R, 5X8mm body	
3	C15,C17,C52	10KT	62-0163		F Cap		10%	Tantalum T&R	
	C23,C33,C34,C47,C69,C73	25PJD1	62-0001	_	F Cap	50V	5%	Ceramic Disc T&R	
2	C26,C51	.22LLME1	60-0039-01		F Cap			Elect, LL-D T&R	
2	C27,C28	.0033J	56-0003	.0033 u				ilm 332J ammo	
1	C29	240PMD1	62-0010	_	F Cap		20%	Ceramic Disc T&R	
12	C30,R55,R58,R61,C66,R93, R95,R100,R101,R104,R110, R141	OMIT	00-0000	IIIIs pa	iic iias	been	omitted		
9	C31,C35,C42,C56,C57,C58, C59,C60,C61	1NPME1	60-0046-01	1.0 u	F Cap	16V -	20/+20%	Elect., N.P. T&R	
2	C37,C40	.0047J	56-0004	.0047 u	F Cap	50V 5	% Poly F:	ilm 472J ammo	
1	C41	4700ME4	60-0062	4700 u	F Cap	16V -	20/+20%	Elect-L	
	C43	200PMD1	62-0009		F Cap	50V		Ceramic Disc T&R	
	C45	.022Ј	56-0008		F Cap		_	ilm 223J ammo	
	C49,C50	10NPME1	60-0051-01		F Cap			Elect., NP T&R	
	C62,C64	1LLM50E1	60-0045-01		F Cap		20%	Elect., LL T&R	
2	C65,C72 C70,C71	68PJD1 4.7ME1	62-0018 60-0048-01		F Cap	50V	5%	Ceramic Disc T&R Elect., T&R	
	D1,D2,D4,D9,D10,D11,D12,	1N4148	70-0002	1N4148	_			ching, 75 Volts PIV	
O	D13	1111110	70 0002	1111110	DIOGO	DIII	COII DWIC	ening, 75 voics iiv	
5	D3,D5,D6,D7,D8	1N4001	70-0001	1N4001	Silio	con Re	ctifier,	1 Amp, 50 Volts PIV	
	D16,D17,D20,D21,D24,D25	LEDG702114		Green				e, T1 (AUTO INSERT)	
12	D26,D27,D28,D29,D30,D31, D32,D33,D34,D35,D36,D37	LEDR702061	70-2061	LED Red	l, T1	L Case	(HAND ST	TUFF ONLY)	
	D40,D41	LEDR702113		Red				e, T1 (AUTO INSERT)	
	H1	HDR322111	32-2111					.23", 0.1" spacing	
	H2, H4	HDR321055	32-1055				_	ing, 0.025 pins	
	H3 HS2	HDR321076	32-1076	Heatsin			_	ing, 0.0? pins Right An	gre
	HS3	HS704205 HS704204	70-4205 70-4204	Heatsin		_	tor, Top		
1	I1	INS704204	70-4204			_	tor, lop	eink	
5	J1,J2,J3,J4,J5	J322110	32-2110	Jack, 1				t, Hor., Cliff S2	
	J6	J320116	32-0116				n DIN, Po		
1	J7	J320099	32-0099					Mount, R/A Shielded U/M	
	L1,L2,L3,L4,L5	FB260217	26-0217				hms @70Ml		
1	L6	FB260221	26-0221	Ferrite	Bead v	v/axia	l lead		
	Software								Page
	290 (EMI) 80-6038		Revised:		st 16,	1996			
	38A1.000	3 1C	Revision						
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uan 	Reference	Part	SYMAN	Description
	P1,P3	100K402011		100 K "W" 16mm, Rot Pot x2, Rack Leads
	P2	100K402005		100 K "C" 16mm, Rot Pot X2, 15mm Knurled Shaft
1	P4	5K402071	40-2071	5 K "B" 16mm, Rot Pot, 15mm K Shaft, H. Mount
1	PA1	PA3	00-0000	3 Pin Pad Pattern, Not a part
1	PA3	PA5X2	00-0000	5X2 Pin Pad Pattern, Not a part
1	PCB1	80-6038-A	80-6038-A	dbx 290 EMI MAIN BOARD RAW
6	Q1,Q2,Q5,Q6,Q7,Q8	2N4124	70-1009	2N4124 NPN, Gen. Purp. Amplifier/Switching Xstr T&
2	Q3,Q4	2N4125	70-1008	2N4125 PNP, Gen. Purp. Amplifier/Switching Xstr
3	Q9,Q10,Q11	2N5088	70-1007	2N5088 NPN, Transistor, T&R
24	R2,R4,R8,R9,R15,R32,R37, R44,R56,R57,R63,R69,R75, R85,R86,R87,R88,R89,R90, R91,R105,R111,R116,R117	10K	50-0020	10 KOhm Resistor 5% 1/4 Watt Carbon Film
3	R3,R16,R27	3.3K	50-0014	3.3 KOhm Resistor 5% 1/4 Watt Carbon Film
	R5,R10,R28,R132,R147,	100	50-0003	100 Ohm Resistor 5% 1/4 Watt Carbon Film
7	R149,R150,R151 R6,R7,R76,R77,R102,R143, R145	4.7K	50-0015	4.7 KOhm Resistor 5% 1/4 Watt Carbon Film
5	R11,R12,R13,R14,R146	470	50-0006	470 Ohm Resistor 5% 1/4 Watt Carbon Film
	R17,R106,R112	330	50-0005	330 Ohm Resistor 5% 1/4 Watt Carbon Film
	R18,R19,R20,R21,R92,R94,	10.0K 1%	52-0107	10.0 KOhm Resistor 1% 1/4 Watt Metal Film
2	R120,R121,R124,R126,R129	1000	E0 0026	100 KOhm Resistor 5% 1/4 Watt Carbon Film
	R22,R47,R50	100K	50-0036	
8	R23,R24,R54,R62,R81,R82, R83,R84	200	50-0004	200 Ohm Resistor 5% 1/4 Watt Carbon Film
5	R25,R35,R45,R46,R53	10	50-0001	10 Ohm Resistor 5% 1/4 Watt Carbon Film
3	R26,R59,R78	15K	50-0019	15 KOhm Resistor 5% 1/4 Watt Carbon Film
	R29	220K	50-0040	220 KOhm Resistor 5% 1/4 Watt Carbon Film
4	R30,R67,R73,R134	20K	50-0023	20 KOhm Resistor 5% 1/4 Watt Carbon Film
1	R31,R48,R51,R65,R71,R108, R109,R114,R115,R118,R131	2K	50-0013	2 KOhm Resistor 5% 1/4 Watt Carbon Film
1	R33	0	50-0050	Ohm Resistor 5% 1/4 Watt Carbon Film
2	R34,R135	1M	50-0045	1 MOhm Resistor 5% 1/4 Watt Carbon Film
4	R36,R66,R72,R79	47K	50-0030	47 KOhm Resistor 5% 1/4 Watt Carbon Film
1	R38,R39,R40,R41,R119, R122,R123,R125,R127,R128, R130	20.0K 1%	52-0091	20.0 KOhm Resistor 1% 1/4 Watt Metal Film
1	R42	12K	50-0021	12 KOhm Resistor 5% 1/4 Watt Carbon Film
	R43	150K	50-0038	150 KOhm Resistor 5% 1/4 Watt Carbon Film
	R49,R52	18K	50-0022	18 KOhm Resistor 5% 1/4 Watt Carbon Film
	R60,R70,R103	470K	50-0042	470 KOhm Resistor 5% 1/4 Watt Carbon Film
	R64	6.8	50-0145	6.8 Ohm Resistor 5% 1/4 Watt Carbon Film
2	R68,R74	1.2K	50-0202	1.2 KOhm Resistor 5% 1/4 Watt Carbon Film
1	R80	33K	50-0028	33 KOhm Resistor 5% 1/4 Watt Carbon Film
2	R96,R97	2.00K 1%	52-0186	2.00 KOhm Resistor 1% 1/4 Watt Metal Film
2	R98,R99	51.1K 1%	52-0019	51.1 KOhm Resistor 1% 1/4 Watt Metal Film
6	R107,R113,R133,R136,R142, R144	1K	50-0012	1 KOhm Resistor 5% 1/4 Watt Carbon Film
5	S13,S19,S24,S27,S36	DIP18S	70-3160	18 Pin Dip Socket
	S23	DIP28S	70-3161	28 Pin Dip Socket, .600 wide
	SR1,SR4	SR280059	28-0059	Screw, 6-32 x 1/4", Pozi, Pan, Black
	SR2,SR3	SR280058	28-0058	Screw, 6-32 x 3/8", Pozi, Pan, Black
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x 2	290 (EMI) 80-6038		Revised:	August 16, 1996
603	38A1.000		Revision	: Al
11	Of Materials	August 16,	1996 10:53	L:08
an	Reference	Part	SYMAN	Description
	SS1	SS281092	28-1092	Swage Standoff, 0.250" Round x 0.250" H, 6-32
2	SW1,SW2,SW3,SW4,SW5,SW6,	SW440163	44-0163	SPST Pushbutton Switch

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				U50U30al
	SW7,SW8,SW9,SW10,SW11,			
	SW12			
2	TP2,TP7	TESTP	00-0000	Test point, Standard
1	U1	7912-H	70-4017	7912 -12 Volt 1 Amp Voltage Regulator TO-220 HORIZ
1	U2	7812-H	70-4013	7812 +12 Volt 1 Amp Voltage Regulator TO-220 HORIZ
1	U3	7805-H	70-4014	7805 +5 Volt 1 Amp Voltage Regulator TO-220 HORIZ
1	U4	CM16C450	72-5408	UART
1	U5	74HC4024	72-1097	Asynchronous 7 Bit Binary Counter
1	U6	74HC74	72-1092	74HC74 Dual D-Type Pos Edge Trig Flip-Flop
1	บ7	7805-V	70-4014	7805 +5 Volt 1 Amp Voltage Regulator TO-220 VERT
1	U9	6N138	70-2139	6N138 Opto-Isolator
1	U10	74HC00	72-1090	Quadruple 2-Input Positive-Nand Gate
1	U11	74HC138	72-1108	3 Line to 8 Line Decoder/Demultiplexer
1	U12	84C00-10	72-5410	CPU Z84C00 Microprocessor 10MHz CMOS
5	U13,U19,U24,U27,U36	4464-80	72-3149-08	4464, 64K X 4 Dynamic RAM -80ns LH2464
5	U14,U15,U16,U18,U32	4558	72-4024	4558 Wide Bandwidth Dual Op-Amp
1	U17	SAA7360/SM	72-3086	A/D Sigma, Delta, 18 bit 44-QFP
3	U20,U25,U30		72-1112	Octal D-Type Pos. Edge Triggered Flip-Flops
1	U21	74HC244A	72-1107	Octal Buffer-Line Driver W/3-State Outputs
1	U22	CS4330/SM	72-5412	CS4330, Stereo D/A Converter
1	U23	72-3070-01	72-3070-01	27C512 (dbx290) V2.08
1	U26	SDISCII_84	72-3177	SDISCII, ASIC, Digitech Custom DSP, 84 PIN PLCC
2	U28,U29		72-4053	Quad Comparator
1	U31	NE5532		5532 Low Noise Dual Op-Amp
1	U34	XILINX DBX		FPGA,AD-DA Interface 44-PLCC
1	U35		72-3147-10	6264, 8K X 8 CMOS Static RAM
1	U37		72-4027	LM311 Analog Voltage Comparator
1	U38		72-3075	256 X 8 Serial EEProm
1	U39	MC34064P		MC34064 Undervoltage Sensing Circuit
5	WA1,WA2,WA3,WA4,WA5		28-3449	Washer, Ground, Int tooth, for Cliff S2 Jack
1	X1	20.00MHZ-V	76-0321	20.00 MHZ Crystal, Horiz